

WHAT IS CLAIMED IS:

1. A stirring device for an electrical discharge machine having a discharge unit for providing electrical discharge to a product to be processed, a processing unit for providing electrodes to the product so that the product is electrical-discharge processed, a tank for receiving therein processing liquid and processing particles and a recycling tube for recycling the processing liquid from the tank, the stirring device comprising:

an air output device adapted to be immersed in the tank;

a high pressure tank adapted to be in communication with the tank by a connection tube; and

a unidirectional valve in communication with the high pressure tank and the tank to control whether air in the high pressure tank flows to the air output device to stir the processing liquid and the processing particle.

2. The stirring device as claimed in claim 1, wherein the high pressure tank has a first pressure gauge to indicate air pressure in the high pressure tank and a second pressure gauge to indicate air pressure flowing out of the high pressure tank.

3. The stirring device as claimed in claim 2, wherein the high pressure tank has a connector mounted on the high pressure tank for connection with the connection tube.

4. The stirring device as claimed in claim 1, wherein the connection tube is adapted to communicate with the recycling tube.

5. The stirring device as claimed in claim 3, wherein the connection tube is adapted to communicate with the recycling tube.

6. The stirring device as claimed in claim 1, wherein the air output device is a hollow body with multiple air holes defined through a surface of the hollow body to allow the air from the high pressure tank to flow into the tank.

7. The stirring device as claimed in claim 3, wherein the air output device is a

1 hollow body with multiple air holes defined through a surface of the hollow body to
2 allow the air from the high pressure tank to flow into the tank.

3 8. The stirring device as claimed in claim 4, wherein the air output device is a
4 hollow body with multiple air holes defined through a surface of the hollow body to
5 allow the air from the high pressure tank to flow into the tank.

6 9. The stirring device as claimed in claim 5, wherein the air output device is a
7 hollow body with multiple air holes defined through a surface of the hollow body to
8 allow the air from the high pressure tank to flow into the tank.

9 10. The stirring device as claimed in claim 6, wherein the high pressure tank
10 contains therein nitrogen.

11 11. The stirring device as claimed in claim 7, wherein the high pressure tank
12 contains therein nitrogen.

13 12. The stirring device as claimed in claim 8, wherein the high pressure tank
14 contains therein nitrogen.

15 13. The stirring device as claimed in claim 9, wherein the high pressure tank
16 contains therein nitrogen.